

PROJECT DESCRIPTION

EQUIPMENT LIST (CONT)

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with at the intersection of MD 650 (New Hampshire Avenue) and Merrimac Drive in Prince George's County. Exclusive / Permissive left turns shall be added on both legs of MD 650. Probes are being added on MD 650 (New Hampshire Avenue) and all Merrimac Drive loops are being replaced. MD 650 (New Hampshire Avenue) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 650 (New Hampshire Avenue) approaches continuing to run concurrent. Exclusive/Permissive left turn phases shall now be provided for both approaches of MD 650 (New Hampshire Avenue). The pedestrian phase with pushbutton actuation shall remain in operation across the north leg of MD 650 (New Hampshire Avenue). The Merrimac Drive approaches shall also continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
973023	Sheet aluminum signs to consist of:	36 SF
	R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign, (36" x 42") span wire mounted.	2 EA
	R4-7 "KEEP RIGHT (symbolic)" sign, (24" x 30") ground mounted	1 EA
	R4-7 "KEEP RIGHT (symbolic)" sign, (12" x 18") ground mounted	2 EA
	OM-1(1) "OBJECT MARKER" sign, (18"x18") ground mounted.	

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
585616	5 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	840 EA
585618	5 INCH HEAT APPLIED YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	1490 EA
585620	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	880 LF
585624	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	205 LF
800000	RE-RING SPAN WIRE	2 EA
801130	SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	6 EA
801135	SQUARE TUBULAR STEEL ANCHOR BASES.	6 EA
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.	5 LF
805150	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.	95 LF
805160	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	55 LF
810550	MICROLOOP PROBE, 500' LEAD-IN CABLE	3 EA
810555	MICROLOOP PROBE, 1000' LEAD-IN CABLE	3 EA
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE.	4 EA
811002	REMOVE ELECTRICAL HANDHOLE.	2 EA
813014	INSTALL GROUND MOUNTED SIGN	15 SF
813015	INSTALL OVERHEAD SIGN	21 SF
860270	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	6 EA
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	20 EA
861104	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)	1070 LF
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	60 LF
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	395 LF
862101	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	2340 LF

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
862102	SAW CUT FOR SIGNAL (LOOP DETECTOR)	640 LF
873001	REMOVE AND SALVAGE EXISTING EQUIPMENT.	1 LS
869101	STEEL SPAN WIRE - 1/4 INCH DIAMETER	385 LF
973023	SHEET ALUMINUM SIGNS	36 SF

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Majid Shekib
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: (301) 513-7350

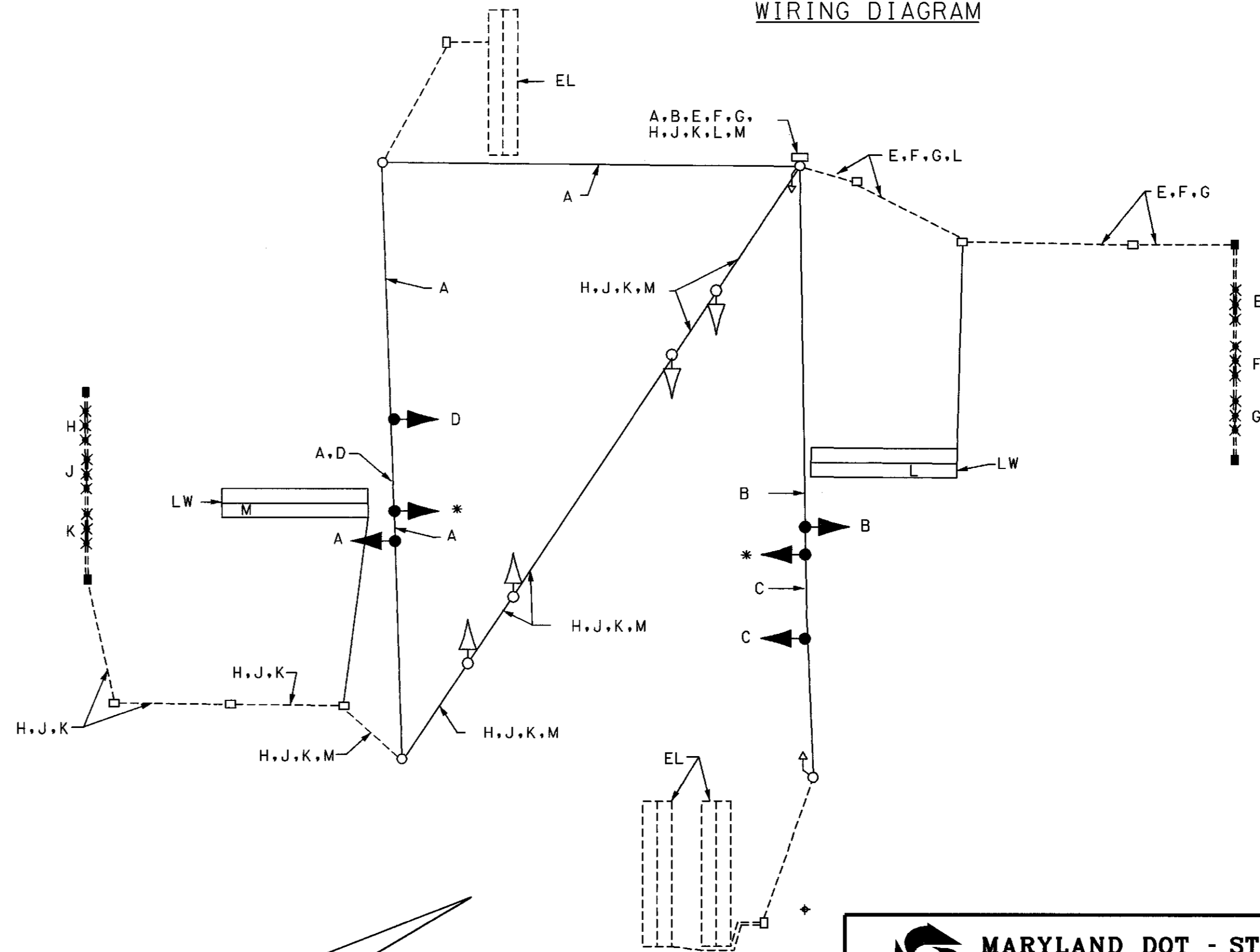
Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

The power company representative is:

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	←G-/R	←G-/R	R	←G-/R	←G-/R	R	R	R	R	R	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6												
PHASE 1 & 6	←G-/G	←G-/G	G	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	←Y-/G	←Y-/G	G	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	R	R	R	←G-/G	←G-/G	G	R	R	R	R	DW	DW
2 & 5 CHANGE	R	R	R	←Y-/G	←Y-/G	G	R	R	R	R	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	WK	WK
PED. CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
4 & 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY	
A	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
C	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E	MICROLOOP LEAD-IN CABLE (500')
H	MICROLOOP LEAD-IN CABLE (1000')
L	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
M	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
*	USE EXISTING WIRING
EL	LOOP WIRE (NO. 14 A.W.G.) EXISTING
LW	LOOP WIRE (NO. 14 A.W.G.)
ES	EXISTING OVERHEAD SERVICE TO BE INSTALLED BY PEPCO
+	GROUND ROD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 650 AND MERRIMAC DRIVE

DRAWN BY: R. C.	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: R.R.Z.	S.H.A. NO.	P64765176	3 OF 3
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO. 6150	
DATE: 4-26-04	LOG MILE: 16065002.14		

